

**Amendments to the Specification:**

Please amend the specification as follows:

**On page 1, after the title of the application, please insert the following paragraph:**

This application is a continuation of U.S. Application Serial No. 09/695,423, filed October 25, 2000, which is a continuation of U.S. Application Serial No. 09/298,924, filed April 26, 1999, which is a divisional of U.S. Application Serial No. 08/750,569, filed February 24, 1997, which is the National Stage of International Application No. PCT/JP95/01189, filed June 14, 1995.

**Please delete the paragraph on page 23, lines 20-24 and replace it with the following paragraph:**

Fig. 31 is an illustration showing the homology between the amino acid sequence of the novel transferase derived from the *Sulfolobus solfataricus* strain KM1 (SEQ ID NO: 2) and that derived from the *Sulfolobus acidocaldarius* strain ATCC 33909 (SEQ ID NO: 4).

**Please delete the paragraph on page 23, lines 25-29 and replace it with the following paragraph:**

Fig. 32 is an illustration showing the homology between the base sequence of the gene coding for the novel transferase derived from the *Sulfolobus solfataricus* strain KM1 (residues 455-2518 of SEQ ID NO: 1) and that derived from the *Sulfolobus acidocaldarius* strain ATCC 33909 (residues 816-2844 of SEQ ID NO: 3).

**Please delete the paragraph on page 24, lines 21-24 and replace it with the following paragraph:**

Fig. 40 is an illustration showing the homology between the amino acid sequence of the novel transferase derived from the *Sulfolobus acidocaldarius* strain ATCC 33909 (SEQ ID NO: 8) and that derived from the *Sulfolobus solfataricus* strain KM1 (SEQ ID NO: 6). The

full-length *Sulfolobus solfataricus* strain KM1 protein (prior to post-translational modification) coded for by SEQ ID NO: 5 is shown in SEQ ID NO: 63.

**Please delete the paragraph on page 24, lines 25-29 and replace it with the following paragraph:**

Fig. 41 is an illustration showing the homology between the base sequence of the gene coding for the novel transferase derived from the *Sulfolobus acidocaldarius* strain ATCC 33909 (residues 1176-2843 of SEQ ID NO: 7) and that derived from the *Sulfolobus solfataricus* strain KM1 (residues 642-2315 of SEQ ID NO: 5).

**Please delete the paragraph on page 149, line 34 to page 150, line 13 and replace it with the following paragraph:**

According to information about the partial amino acid sequences of the novel *Sulfolobus solfataricus* strain KM1, which is determined in Example I-9, oligonucleotide DNA primers are prepared by using a DNA synthesizer (Model 381 manufactured by Applied Biosystems Co.). Their sequence were as follows.

DN-1

Amino Acid Sequence

N terminus AspGluPheArgGluSer C terminus (SEQ ID NO: 59)

DNA Primer 5' TTTACGAAAAACCTCATC 3' (Sequence No. 28 SEQ ID NO: 28)

Base Sequence C T TG T T

DN-8

Amino Acid Sequence

N terminus AspAsnIleGluTyrArgGly C terminus (SEQ ID NO: 60)

DNA Primer 5' GATAACATAGAATACAGAGG 3' (Sequence No. 29 SEQ ID NO: 29)

Base Sequence T T G T G

**Please delete the paragraph on page 172, beginning on line 6 and ending on line 7, and replace with the following paragraph:**

AP-18: Asp Tyr Tyr Tyr Gln Asp Phe Gly Arg Ile Glu Asp Ile Glu  
(Sequence No. 55)

**Please delete the paragraph on page 172, lines 12-29 and replace it with the following paragraph:**

According to information about the partial amino acid sequences determined in Example II-20, oligonucleotide DNA primers are prepared by using a DNA synthesizer (Model 381 manufactured by Applied Biosystems Co.). Their sequence were as follows.

AP-10

**Amino Acid Sequence** (SEQ ID NO: 61)

N terminus Pro Ala Ser Arg Tyr Gln Pro C terminus

DNA Primer 5' AGCTAGTGAGATATCAACC 3' (Sequence No. 57 SEQ ID NO: 57)

Base Sequence A G C C G

AP-11

(complementary strand)

**Amino Acid Sequence** (SEQ ID NO: 62)

N terminus Asp Val Phe Val Tyr Asp Gly Lys C terminus

DNA Primer 5' TTTCCATCATAAACAAAAACATC 3' (Sequence No. 58 SEQ ID NO:  
58)

Base Sequence C A G T G T

C